863 Report of Test Results

Functional Group ID=RT

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Report of Test Results Transaction Set (863) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to transmit the results of tests performed to satisfy a specified product or process requirement. This includes, but is not limited to, test data such as inspection data, certification data, and statistical process control measurements.

Notes:

This Transaction Set is used for reporting invidual sample test results for Lead and Copper, Chemicals, Radionuclides, Water Quality, Total Coliform and Microbiological samples.

Heading:

Must Use	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Req. Des. M	Max.Use	Loop <u>Repeat</u>	Notes and Comments
Must Use	020	BTR	Beginning Segment for Test Results	M	1		
Not Used	040	REF	Reference Identification	O	12		
Not Used	050	DTM	Date/Time Reference	O	10		
Not Used	060	PID	Product/Item Description	O	200		
Not Used	065	TMD	Test Method	O	1		
Not Used	070	MEA	Measurements	O	20		
			LOOP ID - N1			>1	
	080	N1	Name	O	1		
Not Used	090	N2	Additional Name Information	O	2		
Not Used	100	N3	Address Information	O	2		
Not Used	110	N4	Geographic Location	O	1		
	120	REF	Reference Identification	O	12		
			LOOP ID - PER			>1	
	130	PER	Administrative Communications Contact	О	1		
Not Used	140	REF	Reference Identification	O	>1		n1

Detail:

	Pos. No.	Seg. <u>ID</u>	Name	Req. Des.	Max.Use	Loop <u>Repeat</u>	Notes and Comments
			LOOP ID - LIN			>1	
	010	LIN	Item Identification	О	1		
	020	PID	Product/Item Description	O	1000		
Not Used	025	TMD	Test Method	0	1		
Not Used	030	MEA	Measurements	0	20		
Not Used	031	PSD	Physical Sample Description	O	>1		
Not Used	032	SPS	Sampling Parameters for Summary Statistics	0	>1		
	034	QTY	Quantity	O	10		
	040	DTM	Date/Time Reference	O	10		

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042 NTE Note/Special Instruction O 1 043 NTE Note/Special Instruction O 1 045 NTE Note/Special Instruction O 1 045 NTE Note/Special Instruction O 1 050 REF Reference Identification O 1000 LOOP ID - NI 10 051 N1 Name O 1 Not Used 052 N2 Additional Name Information O 2 Not Used 053 N3 Address Information O 2 Not Used 054 N4 Geographic Location O 1 055 REF Reference Identification O 10 056 PER Administrative Communications Contact O 3 Not Used 057 QTY Quantity O 10 LOOP ID - CID Dot Used 070 UIT Unit Detail O <	
045 NTE	
Not Used O50	
LOOP ID - NI	
Not Used 051 N1 Name O 1 Not Used 052 N2 Additional Name Information O 2 Not Used 053 N3 Address Information O 2 Not Used 054 N4 Geographic Location O 1 055 REF Reference Identification O 10 056 PER Administrative Communications Contact O 3 Not Used 057 QTY Quantity O 10 LOOP ID - CID >1 >1 Not Used 070 UIT Unit Detail O 1 Not Used 090 PSD Physical Sample Description O >1	
Not Used 052 N2 Additional Name Information O 2 Not Used 053 N3 Address Information O 2 Not Used 054 N4 Geographic Location O 1 055 REF Reference Identification O 10 056 PER Administrative Communications Contact O 3 Not Used 057 QTY Quantity O 10 LOOP ID - CID >1 >1 Not Used 070 UIT Unit Detail O 1 Not Used 090 PSD Physical Sample Description O >1	
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Not Used 057 QTY Quantity O 10 LOOP ID - CID >1 >1 Not Used 070 UIT Unit Detail O 1 Not Used 090 PSD Physical Sample Description O >1	
LOOP ID - CID >1 060 CID Characteristic/Class ID O 1 Not Used 070 UIT Unit Detail O 1 Not Used 090 PSD Physical Sample Description O >1	
060 CID Characteristic/Class ID O 1 Not Used 070 UIT Unit Detail O 1 Not Used 090 PSD Physical Sample Description O >1	
Not Used070UITUnit DetailO1Not Used090PSDPhysical Sample DescriptionO>1	
Not Used 090 PSD Physical Sample Description O >1	
Not Used 100 SPS Sampling Parameters for Summary Statistics O >1	
Not Used 120 DTM Date/Time Reference O 10	
Not Used 130 REF Reference Identification O 10	
LOOP ID - MEA >1	
150 MEA Measurements O 1	
160 DTM Date/Time Reference O 10	
170 REF Reference Identification O 10	
LOOP ID - LM >1	
172 LM Code Source Information O 1	
Must Use 174 LQ Industry Code M >1	
LOOP ID - STA >1	
Not Used 180 STA Statistics O 1	
Not Used 190 DTM Date/Time Reference O 10	
Not Used 195 REF Reference Identification O 10	ļ
LOOP ID - LM >1	
Not Used 197 LM Code Source Information O 1	
Not Used 200 LQ Industry Code M >1	
LOOP ID - TMD 100	
201 TMD Test Method O 1	
Not Used 202 MEA Measurements O >1	
Not Used 203 DTM Date/Time Reference O 10	
Not Used 204 REF Reference Identification O 10	
LOOP ID - TSP >1	
Not Used 210 TSP Test Period or Interval O 1	
Not Used 220 MEA Measurements O >1	
Not Used 230 DTM Date/Time Reference O 10	
Not Used 240 REF Reference Identification O 10	
LOOP ID - LM >1	
Not Used 242 LM Code Source Information O 1 Not Used 244 LQ Industry Code M >1	

Summary:

	Pos.	Seg.		Req.		Loop	Notes and		
	No.	ID	<u>Name</u>	Des.	Max.Use	Repeat	Comments		
	005	$\overline{\text{CTT}}$	Transaction Totals	O	1				
Must Use	010	SE	Transaction Set Trailer	M	1				

Transaction Set Notes

1. The REF segment is to be used to send identification numbers associated with party referenced in the PER.

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

Purpose: Syntax Notes:

To indicate the start of a transaction set and to assign a control number.

Semantic Notes: 1 The transaction set identifier (ST01) used by the translation routines of the

interchange partners to select the appropriate transaction set definition (e.g., $810\,$

selects the Invoice Transaction Set).

Comments:

>>	Ref. <u>Des.</u> ST01	Data Element 143	Name Transaction Set Identifier Code	Attı M	ributes ID	<u>s</u> 3/3
//	5101	143	Code uniquely identifying a Transaction Set	IVI	Ш	3/3
			'863' X12.41 Report of Test Results. This implementation of the 863 Report of Test Results is us submission of drinking water test results from laboratories to			ncies.
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
>>	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the tfunctional group assigned by the originator for a transaction		AN action	4/9 set

Position: 020

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

Purpose: To

To indicate the beginning of a test results transaction set

Syntax Notes: Semantic Notes:

- 1 If BTR01 equals "01", "02", "03", "04", "05", "18" or "19", then BTR06 is required to identify the original test report reference number transmitted.
- 2 BTR02 is the date that this transaction set was created by the sending party.
- **3** BTR03 is the time that this transaction set was created by the sending party.
- 4 BTR05 specifies test results report reference number created by the sending party.

Comments:

	Ref.	Data	Data Element Summary			
	Des.	Element	Name	Attı	ibutes	
>>	BTR01	353	Transaction Set Purpose Code	M	ID	2/2
	21101		Code identifying purpose of transaction set			_,_
			Code identifying purpose of the transaction set. '00' Original '15' Resubmission			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
>>	BTR02	373	Date Date (YYMMDD)	M	DT	6/6
			Creation date for drinking water test results report. YYMN	MDD		
X	BTR03	337	Time	0	TM	4/8
			Time expressed in 24-hour clock time as follows: HHMM, 6 HHMMSSD, or HHMMSSDD, where H = hours (00-23), N 59), S = integer seconds (00-59) and DD = decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundred to the contract of the contrac	M = m s; dec edths	inutes imal se (00-99	(00- econds
>>	BTR04	755	Report Type Code Code indicating the title or contents of a document, report of	O or sup	ID porting	2/2 g item
			Code identifying the type of report 'RT' Report of test results and Analysis report 'W2' Summary (Safe Drinking Water Report) Refer to 003061 Data Element Dictionary for acceptable co	de va	lues	
>>	BTR05	127	Reference Identification	0	AN	1/30
<i>"</i>	DIRUS	127	Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier Number assigned by laboratory for the report.	_		1/30
	BTR06	127	Reference Identification	O	AN	1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier Required when report is a resubmission to provide original			oer.
X	BTR07	786	Security Level Code	O	ID	2/2
			Code indicating the level of confidentiality assigned by the information following Refer to 003061 Data Element Dictionary for acceptable co			

Segment: N1 Name

Position: 080
Loop: N1
Level: Heading
Usage: Optional

Max Use:

Purpose: To identify a party by type of organization, name, and code

Syntax Notes: 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes: Comments:

1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Two occurrences of the N1 loop are required at this location in the transaction set. One

is required to identify the testing lab submitting the report. The second to identify the

State/agency where the report is being sent.

Ref.	Data	·					
Des.	Element	<u>Name</u>	Att	ributes	<u> </u>		
N101	98	v	\mathbf{M}	ID	2/2		
			ion, o	r an inc	lividual		
			_	_			
		•					
N102	93	Name	\mathbf{X}	AN	1/35		
		Free-form name					
		Name of the testing lab or State including agency.					
N103	66	Identification Code Qualifier	X	ID	1/2		
			d for I	dentifi	cation		
		· ,					
		'75' State ID number					
		'FN' EPA Laboratory Certification ID					
		Refer to 003061 Data Element Dictionary for acceptable code values.					
N104	67	Identification Code	X	$\mathbf{A}\mathbf{N}$	2/20		
		Code identifying a party or other code					
		Appropriate identification number					
N105	706	Entity Relationship Code	0	ID	2/2		
		Code describing entity relationship					
		Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.			
N106	98	Entity Identifier Code	O	ID	2/2		
		Code identifying an organizational entity, a physical locat	ion, o	r an inc	lividual		
		Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.			
	N101 N102 N103 N104 N105	Des. N101 Element 98 N102 93 N103 66 N104 67 N105 706	Name	N101 98 Entity Identifier Code M	N101 P8 Entity Identifier Code M ID		

Segment: REF Reference Identification

Position: 120
Loop: N1
Level: Heading
Usage: Optional
Max Use: 12

Purpose: To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: Comments:

Notes:

1 REF04 contains data relating to the value cited in REF02.

This segment must be included in the N1 loop identifying the testing laboratory to convey the PIN when N101 equals 'TL'.

	Ref.	Data	2 2.0			
	Des.	Element	<u>Name</u>	Attr	ributes	
>>	REF01	128	Reference Identification Qualifier	M	ID	2/3
			Code Qualifying the Reference Identification			
			'4A' A number that uniquely identifies a testing laboratory.	. The	numb	er is
			supplied by the state or the federal government.			
	REF02	127	Reference Identification	X	AN	1/30
			Reference information as defined for a particular Transaction	on Se	t or as	
			specified by the Reference Identification Qualifier			
X	REF03	352	Description	X	AN	1/80
			A free-form description to clarify the related data elements	and t	heir co	ntent
X	REF04	C040	Reference Identifier	O		
			To identify one or more reference numbers or identification	num	bers as	;
			specified by the Reference Qualifier			
X	C04001	128	Reference Identification Qualifier	M	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	C04002	127	Reference Identification	\mathbf{M}	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transaction	on Se	t or as	
			specified by the Reference Identification Qualifier			
X	C04003	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	C04004	127	Reference Identification	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transaction	on Se	t or as	
			specified by the Reference Identification Qualifier			
X	C04005	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	C04006	127	Reference Identification	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transaction	on Se	t or as	
			specified by the Reference Identification Qualifier			

Segment: PER Administrative Communications Contact

Position: 130
Loop: PER
Level: Heading
Usage: Optional
Max Use: 1

Purpose: To identify a person or office to whom administrative communications should be

directed

Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.

- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes: Comments:

Notes: This segment should be included in the N1 loop identifying the Testing Lab if an

identification of the certifying party is required.

	Ref.	Data				
	Des.	Element	<u>Name</u>		ributes	<u>s</u>
>>	PER01	366	Contact Function Code	M	ID	2/2
			Code identifying the major duty or responsibility of the pers	son o	r group)
			named			
			'CE' Certifier			
			Refer to 003061 Data Element Dictionary for acceptable code	de va	lues.	
	PER02	93	Name	O	$\mathbf{A}\mathbf{N}$	1/35
			Free-form name			
			Name of certifying individual.			
X	PER03	365	Communication Number Qualifier	\mathbf{X}	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable coo	de va	lues.	
\mathbf{X}	PER04	364	Communication Number	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/80
			Complete communications number including country or are applicable	a coo	de whe	n
X	PER05	365	Communication Number Qualifier	\mathbf{X}	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable coo	de va	lues.	
\mathbf{X}	PER06	364	Communication Number	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/80
			Complete communications number including country or are applicable	a coo	de whe	n
X	PER07	365	Communication Number Qualifier	\mathbf{X}	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable coo	de va	lues.	
\mathbf{X}	PER08	364	Communication Number	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/80
			Complete communications number including country or are	a co	de whe	n
T 7	DEDAG	440	applicable	•	4 3.7	1 /20
X	PER09	443	Contact Inquiry Reference	0	AN	1/20
			Additional reference number or description to clarify a cont	act n	umber	

Segment: LIN Item Identification

Position: 010
Loop: LIN
Level: Detail
Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes: 1 If either LIN04 or LIN05 is present, then the other is required.

- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: 1 LIN01 is the line item identification

Comments: 1 See the Data Dictionary for a complete list of IDs.

2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., or SKU.

Notes:

Note: One LIN loop should be created for each sample being reported. Each LIN loop must start with the LIN segment. A transaction set can accommodate multiple sample reports.

	Ref.	Data				
	Des.	Element	<u>Name</u>	Att	ributes	
X	LIN01	350	Assigned Identification	O		1/20
			Alphanumeric characters assigned for differentiation within	n a tra	ansacti	on set
>>	LIN02	235	Product/Service ID Qualifier	M	ID	2/2
			Code identifying the type/source of the descriptive number	used	in	
			Product/Service ID (234)			
			'TU' Report Type/Tested Material Identification Number			
>>	LIN03	234	Product/Service ID	M	AN	1/40
			Identifying number for a product or service			
			Sample Category Identification			
			'PB' Lead and Copper			
			'CH' Chemicals			
			'GE' General Samples			
			'RA' Radionuclides			
			'PP' Water Quality			
			'TC' Total Coliform			
	T TNIO 4	225	'MB' Microbiological	37	ID	2/2
>>	LIN04	235	Product/Service ID Qualifier	X	ID :	2/2
			Code identifying the type/source of the descriptive number Product/Service ID (234)	usea	111	
			'S4' Laboratory Sample Identification			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
>>	LIN05	234	Product/Service ID	X	AN	1/40

		Identifying number for a product or service			
		Appropriate sample number as assigned by the lab. Used a	as an i	dentifi	cation
T TNO	225	of the sample.	T 7	ID	2/2
LIN06	235	Product/Service ID Qualifier Code identifying the type/serves of the descriptive number	X r usad	ID in	2/2
		Code identifying the type/source of the descriptive number Product/Service ID (234)	r usea	Ш	
		'S5' State Sample Identification			
		Refer to 003061 Data Element Dictionary for acceptable c	ode va	alues.	
LIN07	234	Product/Service ID	X	AN	1/40
		Identifying number for a product or service			
		Appropriate sample as assigned by the state. Used as an ic	lentifi	cation	of the
LIN08	235	sample. Product/Service ID Qualifier	X	ID	2/2
LINUO	233	Code identifying the type/source of the descriptive numbe			212
		Product/Service ID (234)	i uscu	111	
		'S6' Previous sample identification			
		Notes. Descriped orders consult toms in DID04 consult DD (D	4)	DI	
		Note: Required when sample type in PID04 equals RP (R (Replacement for invalid result).	epeat)	or KI	
		Refer to 003061 Data Element Dictionary for acceptable c	ode va	alues.	
LIN09	234	Product/Service ID	X	$\mathbf{A}\mathbf{N}$	1/40
		Identifying number for a product or service			
		Note: Appropriate sample number as assigned by the lab	or the	state. I	Jsed as
LIN10	235	an identification of the previous sample. Product/Service ID Qualifier	X	ID	2/2
LIMIU	255	Code identifying the type/source of the descriptive numbe			212
		Product/Service ID (234)	r useu	***	
		'TU' Lab Composite Sample Number			
		Note: Required when sample is part of a composite.			
		Refer to 003061 Data Element Dictionary for acceptable c	ode va	alues.	
LIN11					
	234	Product/Service ID	X	AN	1/40
	234	Product/Service ID Identifying number for a product or service		AN	1/40
	234	Identifying number for a product or service Note: Appropriate composite sample number as assigned	X by the		
I IN12		Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite samples in the composite samples.	X by the osite.	e lab or	the
LIN12	234	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier	X by the osite. X	e lab or	
LIN12		Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234)	X by the osite. X r used	e lab or ID in	the
	235	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable composite in the composite samples in	by the osite. X r used	e lab or ID in alues.	the 2/2
LIN12		Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable correct/Service ID	X by the osite. X r used	e lab or ID in	the
LIN13	235	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite reproduct/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable composite reproduct/Service ID Identifying number for a product or service	by the osite. X r used ode va X	ID in alues.	the 2/2 1/40
	235	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable correct/Service ID	by the osite. X r used ode va X	ID in alues. AN	the 2/2
LIN13	235	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable composite Product/Service ID Identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234)	by the osite. X r used ode va X r used	ID in alues. AN ID in	the 2/2 1/40
LIN13 LIN14	235 234 235	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable composite roduct/Service ID Identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable composite roduct/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable composite roduct/Service ID (234)	by the osite. X r used ode va X r used ode va	ID in alues. AN ID in alues.	the 2/2 1/40 2/2
LIN13	235	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID	by the osite. X r used ode va X r used	ID in alues. AN ID in	the 2/2 1/40
LIN13 LIN14 LIN15	235 234 235 234	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Identifying number for a product or service	by the osite. X r used ode va X x r used ode va X x	ID in alues. AN ID in alues. AN	the 2/2 1/40 2/2 1/40
LIN13 LIN14	235 234 235	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID	by the osite. X r used ode va X r used ode va X X r used X	ID in alues. AN ID in alues. AN ID	the 2/2 1/40 2/2
LIN13 LIN14 LIN15	235 234 235 234	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Identifying number for a product or service Product/Service ID Identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234)	by the osite. X r used ode va X r used ode va X r used x r used	ID in alues. AN ID in alues. AN ID in ID in	the 2/2 1/40 2/2 1/40
LIN13 LIN14 LIN15 LIN16	235 234 235 234 235	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Qualifier Code identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234)	by the osite. X r used ode va X x r used ode va X r used ode va x ode va	ID in alues. AN ID in alues. AN ID in alues. AN ID in alues.	the 2/2 1/40 2/2 1/40 2/2
LIN13 LIN14 LIN15	235 234 235 234	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Qualifier Code identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID	by the osite. X r used ode va X r used ode va X r used x r used	ID in alues. AN ID in alues. AN ID in ID in	the 2/2 1/40 2/2 1/40
LIN13 LIN14 LIN15 LIN16	235 234 235 234 235	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Qualifier Code identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234) Identifying number for a product or service	by the osite. X r used ode va X r used ode va X r used ode va X x r used ode va X	ID in alues. AN ID in ID in AN AN AN AN	the 2/2 1/40 2/2 1/40 2/2 1/40
LIN13 LIN14 LIN15 LIN16	235 234 235 234 235	Identifying number for a product or service Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Qualifier Code identifying number for a product or service Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID	by the osite. X r used ode va X r used ode va X r used ode va X X r used ode va X X	in alues. AN ID in alues. AN ID in alues. AN ID in ID in ID in ID	the 2/2 1/40 2/2 1/40 2/2

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			Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable	code va	alues.	
X	LIN19	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN20	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable			2/2
X	LIN21	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable			2/2
X	LIN23	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable			2/2
X	LIN25	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable			2/2
X	LIN27	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable			2/2
X	LIN29	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable			2/2
X	LIN31	234	Product/Service ID Identifying number for a product or service	X	AN	1/40

Segment: PID Product/Item Description

Position: 020
Loop: LIN
Level: Detail
Usage: Optional
Max Use: 1000

Purpose: To describe a product or process in coded or free-form format

Syntax Notes: 1 If PID04 is present, then PID03 is required.

- At least one of PID04 or PID05 is required.If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID03 is required.

Semantic Notes: 1

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

Comments:

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

Notes:

Note: For a Test Results report at least one iteration of PID is required for each sample to identify Sample Type and Compliance.

This Segement is REQUIRED

			Data Element Summary			
	Ref.	Data				
	Des.	Element	<u>Name</u>	Att	ribute	<u>s</u>
>>	PID01	349	Item Description Type	\mathbf{M}	ID	1/1
			Code indicating the format of a description			
			Code indicating the format of a description.			
			'S' Structured			
			Refer to 003061 Data Element Dictionary for acceptable c	ode va	lues.	
>>	PID02	750	Product/Process Characteristic Code	O	ID	2/3
			Code identifying the general class of a product or process	charac	cteristic	c
			Code Values			
			'CO' Collection Method Code			
			'LC' Lead/Copper Sample Type			
			'RM' Results Method Code			
			'RR' Rejection Reason			
			'ST' Sample Type.			
			Note: At least one ST (Sample Type) is required for each	I INI L	oon If	complo
			is Lead/Copper one LC is also required.	LIIVI	50p. 11	sample
			Refer to 003061 Data Element Dictionary for acceptable c	ode va	lues.	
>>	PID03	559	Agency Qualifier Code	M	ID	2/2
	11000		Code identifying the agency assigning the code values	TAT	ш	<i>=1 =</i>
			'EP' Environmental Protection Agency			
			Refer to 003061 Data Element Dictionary for acceptable c	ode w	luge	
	DIDA	751	•			1/10
	PID04	751	Product Description Code	X	AN	1/12
			A code from an industry code list which provides specific characteristic	data a	bout a	product
			A code from the industry code list			

			(See Appendix B)		
			Note: At least one code value from the Sample Type code list is each loop.	require	ed for
X	PID05	352	Description X	AN	1/80
			A free-form description to clarify the related data elements and	their c	ontent
X	PID06	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is bei	ID ng des	2/2 cribed
			Refer to 003061 Data Element Dictionary for acceptable code v	alues.	
X	PID07	822	Source Subqualifier O A reference that indicates the table or text maintained by the So	AN ource Q	1/15 qualifier
	PID08	1073	Yes/No Condition or Response Code O	ID	1/1
			Code indicating a Yes or No condition or response		
			Compliance indication		
			'Y' For compliance		
			'N' Not for compliance		
			Note: This element is required when PID02 equals 'ST' (Sampl	е Туре) to
			indicate if the sample was submitted for compliance purposes.		
			Refer to 003061 Data Element Dictionary for acceptable code v	alues.	
X	PID09	819	Language Code Code designating the language used in text, from a standard commaintained by the International Standards Organization (ISO 6		2/3

Segment: QTY Quantity

Position: 034
Loop: LIN
Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify quantity information

Syntax Notes: Semantic Notes: Comments:

	Ref.	Data	·			
	Des.	Element	<u>Name</u>	Att	ribute	<u>s</u>
>>	QTY01	673	Quantity Qualifier	M	ID	2/2
			Code specifying the type of quantity			
			'SW' Sample Amount			
			'99' Quantity Used for Testing			
			Refer to 003061 Data Element Dictionary for acceptable co			
>>	QTY02	380	Quantity Numeric value of quantity	M	R	1/15
			Volume of the sample			
	QTY03	C001	Composite Unit of Measure	O		
			To identify a composite unit of measure(See Figures Apperuse.)	ndix f	or exa	mples of
>>	C00101	355	Unit or Basis for Measurement Code	O	ID	2/2
			Code specifying the units in which a value is being express which a measurement has been taken	sed, o	r manı	ner in
			'ML' milliliter			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	alues.	
X	C00102	1018	Exponent	O	R	1/15
			Power to which a unit is raised			
X	C00103	649	Multiplier	O	R	1/10
			Value to be used as a multiplier to obtain a new value			
X	C00104	355	Unit or Basis for Measurement Code	O	ID	2/2
			Code specifying the units in which a value is being express	sed, c	r manı	ner in
			which a measurement has been taken			
			Refer to 003061 Data Element Dictionary for acceptable co			
X	C00105	1018	Exponent	O	R	1/15
***	G00406	< 40	Power to which a unit is raised			4.40
X	C00106	649	Multiplier	O	R	1/10
v	C00107	255	Value to be used as a multiplier to obtain a new value	•	ID	2/2
X	C00107	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express	O	ID	2/2
			which a measurement has been taken	seu, c	n mam	ilei iii
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	alues.	
X	C00108	1018	Exponent	0	R	1/15
	200100	1010	Power to which a unit is raised	9		1,10
X	C00109	649	Multiplier	O	R	1/10
	200107	J./	Value to be used as a multiplier to obtain a new value	•		_,_,
X	C00110	355	Unit or Basis for Measurement Code	O	ID	2/2
			Code specifying the units in which a value is being express	_		
ED 1 0 601						24 1005

			which a measurement has been taken Refer to 003061 Data Element Dictionary for acceptable c	ode va	ılues.	
X	C00111	1018	Exponent	O	R	1/15
			Power to which a unit is raised			
X	C00112	649	Multiplier	O	R	1/10
			Value to be used as a multiplier to obtain a new value			
X	C00113	355	Unit or Basis for Measurement Code	O	ID	2/2
			Code specifying the units in which a value is being expres	ssed, o	r manı	ner in
			which a measurement has been taken	ada w	1,,,,,	
			Refer to 003061 Data Element Dictionary for acceptable c	oue va		
\mathbf{X}	C00114	1018	Exponent	O	R	1/15
			Power to which a unit is raised			
X	C00115	649	Multiplier	O	R	1/10
			Value to be used as a multiplier to obtain a new value			

Segment: DTM Date/Time Reference

Position: 040
Loop: LIN
Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM02 DTM03 or DTM06 is required.

2 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:

Comments:

Notes: One DTM segment per LIN loop is required to identify collection date.

	D 6	D 4	Data Element Summary			
	Ref.	Data	Nama	A 44	4 a.	~
	<u>Des.</u> DTM01	Element 374	Name Date/Time Qualifier	M	ributes ID	3/3
>>	DIMUI	3/4	Code specifying type of date or time, or both date and time		Ш	3/3
			'906' Collection Date			
			'050' Lab Receipt Date			
			'090' Report Start Date			
			'091' Report End Date			
			'406' Composite Date			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	DTM02	373	Date	X	DT	6/6
	2111102	0.0	Date (YYMMDD)			0, 0
	DTM03	337	Time	X	TM	4/8
			Time expressed in 24-hour clock time as follows: HHMM,	or HI		
			HHMMSSD, or HHMMSSDD, where H = hours (00-23), N			
			59), S = integer seconds (00-59) and DD = decimal second			*
			are expressed as follows: $D = tenths (0-9)$ and $DD = hundred$			
			Expressed as HHMM			
X	DTM04	623	Time Code	O	ID	2/2
			Code identifying the time. In accordance with International	l Star	ndards	
			Organization standard 8601, time can be specified by a + or			
			indication in hours in relation to Universal Time Coordina			
			since + is a restricted character, + and - are substituted by	P and	M in t	he
			codes that follow			
			Refer to 003061 Data Element Dictionary for acceptable co			
X	DTM05	624	Century	0	N0	2/2
			The first two characters in the designation of the year (CC)			
	DTM06	1250	Date Time Period Format Qualifier	X	ID	2/3
			Code indicating the date format, time format, or date and t	ime f	ormat	
			'D8' Date expressed CCYYMMDD			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	DTM07	1251	Date Time Period	X	$\mathbf{A}\mathbf{N}$	1/35
			Expression of a date, a time, or range of dates, times or date	es an	d times	8
			Expressed as CCYYMMDD			

Segment: NTE Note/Special Instruction

Position: 042
Loop: LIN
Level: Detail
Usage: Optional

Max Use: 1

Purpose: To transmit information in a free-form format, if necessary, for comment or special

instruction

Syntax Notes: Semantic Notes:

Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12

standard implementations, is not machine processable. The use of the NTE segment

should therefore be avoided, if at all possible, in an automated environment.

	Ref.	Data				
	Des.	Element	<u>Name</u>	Attributes		
\mathbf{X}	NTE01	363	Note Reference Code	O	ID	3/3
			Code identifying the functional area or purpose for which t	he no	te app	lies
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
>>	NTE02	352	Description	M	AN	1/80
			A free-form description to clarify the related data elements	and t	heir co	ontent

Segment: NTE Note/Special Instruction

Position: 043
Loop: LIN
Level: Detail
Usage: Optional

Max Use: 1

Purpose: To transmit information in a free-form format, if necessary, for comment or special

instruction

Syntax Notes: Semantic Notes:

Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12

standard implementations, is not machine processable. The use of the NTE segment

should therefore be avoided, if at all possible, in an automated environment.

	Ref.	Data				
	Des.	Element	<u>Name</u>	Attributes		
\mathbf{X}	NTE01	363	Note Reference Code	O	ID	3/3
			Code identifying the functional area or purpose for which	the no	te app	lies
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
>>	NTE02	352	Description	M	AN	1/80
			A free-form description to clarify the related data elements	s and	their c	ontent

Segment: NTE Note/Special Instruction

Position: 045
Loop: LIN
Level: Detail
Usage: Optional

Max Use: 1

Purpose: To transmit information in a free-form format, if necessary, for comment or special

instruction

Syntax Notes: Semantic Notes:

Comments:

1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

	Ref.	Data				
	Des.	Element	<u>Name</u>	Attributes		
\mathbf{X}	NTE01	363	Note Reference Code	O	ID	3/3
			Code identifying the functional area or purpose for which	the no	te app	lies
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
>>	NTE02	352	Description	M	AN	1/80
			A free-form description to clarify the related data elements	s and	their c	ontent

Segment: REF Reference Identification

Position: 050
Loop: LIN
Level: Detail
Usage: Optional
Max Use: 1000

Purpose: To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes:

At least one occurrence of the REF segment is required in the LIN loop if the sample is part of a RAD composite.

	Ref.	Data	·			
	Des.	Element	<u>Name</u>	Att	ributes	<u>i</u>
>>	REF01	128	Reference Identification Qualifier	M	ID	2/3
			Code Qualifying the Reference Identification			
			'SJ' Composite Quarter/ Set Number			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	REF02	127	Reference Identification	X	AN	1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier See Appendix I	on Se	et or as	
X	REF03	352	Description	X	AN	1/80
21	KLI 03	332	A free-form description to clarify the related data elements			
X	REF04	C040	Reference Identifier	O		
			To identify one or more reference numbers or identification	ı num	bers as	S
			specified by the Reference Qualifier			
X	C04001	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification		_	
			Refer to 003061 Data Element Dictionary for acceptable co			
X	C04002	127	Reference Identification	X	AN	1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	on se	et or as	
X	C04003	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	C04004	127	Reference Identification	\mathbf{X}	AN	1/30
			Reference information as defined for a particular Transaction	on Se	et or as	
T 7	G0.400.	400	specified by the Reference Identification Qualifier	.	-	2 /2
X	C04005	128	Reference Identification Qualifier Code Qualifying the Reference Identification	X	ID	2/3
			Refer to 003061 Data Element Dictionary for acceptable co	do ve	duoc	
v	C04006	107	Reference Identification			1/20
X	CU4000	127	Reference information as defined for a particular Transaction	X on Se	AN et or as	1/30
			specified by the Reference Identification Qualifier	J11 DC	or us	

N₁ Name **Segment:**

Position: 051 Loop: N1 Level: Detail Usage: Optional

Max Use:

Purpose: To identify a party by type of organization, name, and code

Syntax Notes: At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

Semantic Notes: Comments:

1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

N105 and N106 further define the type of entity in N101.

At least two occurrences of the N1 loop are required at this location in the transaction **Notes:**

set. One is required to identify the water system. The second should identify the water facility. A third iteration is allowed to identify the sampling point. Water system and water facility require use of the identification number. Sampling location may be

designated either by identification number or name.

	Ref.	Data						
	Des.	Element	<u>Name</u>	Att	ributes	<u> </u>		
>>	N101	98	Entity Identifier Code	M	ID	2/2		
			Code identifying an organizational entity, a physical location	on, or	an inc	lividual		
			'FA' Water Facility					
			'W9' Sampling Location					
			'WS' Water System					
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.			
	N102	93	Name	X	AN	1/35		
			Free-form name					
			The name of the water system, water facility or sampling lo	catio	n			
>>	N103	66	Identification Code Qualifier	X	ID	1/2		
			Code designating the system/method of code structure used	for I	dentifi	cation		
			Code (67)					
			Code identifying the number in N104					
			'FA' Facility					
				,				
			Refer to 003061 Data Element Dictionary for acceptable co					
>>	N104	67	Identification Code	X	AN	2/20		
			Code identifying a party or other code					
			Appropriate identification number					
X	N105	706	Entity Relationship Code	O	ID	2/2		
			Code describing entity relationship					
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.			
X	N106	98	Entity Identifier Code	O	ID	2/2		
			Code identifying an organizational entity, a physical location, or an individual					
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.			

Segment: REF Reference Identification

Position: 055
Loop: N1
Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes: At least one occurrence of the REF is required in the LIN/N1 loop if PID04 equals RP Repeat sample.

	Ref.	Data	Data Delicit Saimary			
	Des.	Element	<u>Name</u>	Att	ributes	-
>>	REF01	128	Reference Identification Qualifier Code Qualifying the Reference Identification	M	ID	2/3
			'7D' Tester Identification			
			'7E' Collector Identification Code			
			'7F' Repeat Location '7G' Data Quality Reject Reason			
			'7H' EPA Test Type Purpose Code			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	REF02	127	Reference Identification	X	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transacti specified by the Reference Identification Qualifier	on Se	et or as	
3 7	DEE03	252	See Appendix B	X 7	A NT	1 /00
X	REF03	352	Description A free-form description to clarify the related data elements	X and	AN their co	1/80 ontent
X	REF04	C040	Reference Identifier	o		
			To identify one or more reference numbers or identification	ı num	bers as	3
T 7	G0.4004	400	specified by the Reference Qualifier	3.5		2 /2
X	C04001	128	Reference Identification Qualifier Code Qualifying the Reference Identification	M	ID	2/3
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	C04002	127	Reference Identification	M	AN	1/30
			Reference information as defined for a particular Transacti specified by the Reference Identification Qualifier	on Se	et or as	
X	C04003	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable co			
X	C04004	127	Reference Identification Reference information as defined for a particular Transacti	X on So	AN	1/30
			specified by the Reference Identification Qualifier	on se	t or as	
X	C04005	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable co			
X	C04006	127	Reference Identification Performed information as defined for a particular Transacti	X on So	AN	1/30
			Reference information as defined for a particular Transacti specified by the Reference Identification Qualifier	on se	i or as	

Segment: **PER** Administrative Communications Contact

Position: 056
Loop: N1
Level: Detail
Usage: Optional
Max Use: 3

Purpose: To identify a person or office to whom administrative communications should be

directed

Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.

- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes: Comments:

Notes: This segment should be included in the N1 loop identifying the name of the sample

collector if this information is required.

	Ref.	Data	2 2.0			
	Des.	Element	<u>Name</u>		ributes	<u>i</u>
>>	PER01	366	Contact Function Code	M	ID	2/2
			Code identifying the major duty or responsibility of the pers	on o	r group)
			named 'SL' Collector			
			SL Conector			
			Refer to 003061 Data Element Dictionary for acceptable code	de va	lues.	
	PER02	93	Name	O	$\mathbf{A}\mathbf{N}$	1/35
			Free-form name			
			Name of the sample collector.			
X	PER03	365	Communication Number Qualifier	\mathbf{X}	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable code	de va	lues.	
X	PER04	364	Communication Number	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/80
			Complete communications number including country or are applicable	a coo	de whe	n
X	PER05	365	Communication Number Qualifier	\mathbf{X}	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable coo	de va	lues.	
X	PER06	364	Communication Number	\mathbf{X}	AN	1/80
			Complete communications number including country or are applicable	a coo	de whe	n
X	PER07	365	Communication Number Qualifier	\mathbf{X}	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable coo	de va	lues.	
X	PER08	364	Communication Number	\mathbf{X}	AN	1/80
			Complete communications number including country or are	a coo	de whe	n
			applicable			
X	PER09	443	Contact Inquiry Reference	O	AN	1/20
			Additional reference number or description to clarify a cont	act n	umber	

Segment: CID Characteristic/Class ID

Position: 060
Loop: CID
Level: Detail
Usage: Optional

Max Use:

Notes:

Purpose: To specify the general class or specific characteristic upon which test results are being

reported or are to be taken

Syntax Notes: 1 At least one of CID01 CID02 CID04 or CID05 is required.

- If either CID03 or CID04 is present, then the other is required.
 If CID06 is present, then both CID03 and CID04 are required.
- 4 If CID07 is present, then at least one of CID04 or CID05 is required.

Semantic Notes:

Comments: 1 CID06 specifies the individual code list of the agency specified in CID03.

2 CID07 refers to whether or not the characteristic identified in CID04 or CID05 or both is affected by the product change. If it is affected, the value is "Y". A value of "N" is used when it is known that it will not be affected. Any other value indicates it

is indeterminate.

At least one iteration of the CID loop is required for each sample processed. There will be a separate CID loop for each analyte tested and reported on. A transaction set can

contain multiple CID loops.

	D 4	.	Data Element Summary			
	Ref.	Data				
	Des.	Element	<u>Name</u>		ribute	_
X	CID01	738	Measurement Qualifier	X	ID	1/3
			Code identifying a specific product or process characteristi	c to v	vhich a	
			measurement applies			
			Refer to 003061 Data Element Dictionary for acceptable co		ilues.	
X	CID02	750	Product/Process Characteristic Code	X	ID	2/3
			Code identifying the general class of a product or process of	charac	eteristic	
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
>>	CID03	559	Agency Qualifier Code	\mathbf{X}	ID	2/2
			Code identifying the agency assigning the code values			
			'EP' EPA Analyte Code List			
			'CA' Chemical Abstract System Code List			
			Note: Choose either the EPA or CAS Code List			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
>>	CID04	751	Product Description Code	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/12
			A code from an industry code list which provides specific	data a	bout a	product
			characteristic			
			Appropriate code value from the above list			
	CID05	352	Description	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/80
			A free-form description to clarify the related data elements	and	their co	ontent
			Analyte name			
X	CID06	822	Source Subqualifier	0	AN	1/15
			A reference that indicates the table or text maintained by the	ne So	urce Q	
	CID07	1073	Yes/No Condition or Response Code	O	ID	1/1
			Code indicating a Yes or No condition or response			
			Use to indicate Microbe presence or absence			
			'Y' Microbes present			
			'N' Microbes not present			
			Refer to 003061 Data Element Dictionary for acceptable co	de v	lues	

MEA Measurements **Segment: Position:** 150 Loop: **MEA** Level: Detail Usage: Optional Max Use: **Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001) **Syntax Notes:** At least one of MEA03 MEA05 MEA06 or MEA08 is required. If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required. 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. 5 Only one of MEA08 or MEA03 may be present. **Semantic Notes:** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06. 1 **Comments:** When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value. All test results should be reported here. A separate CID loop should be used for each **Notes:** test method reported. **Data Element Summary** Ref. Data Des. Element Name Attributes MEA01 737 Measurement Reference ID Code Code identifying the broad category to which a measurement applies 'TR' Test Results 'CO' Concentration 'EN' Environmental conditions 'CT' Counts Note: 'EN' are the data values to be reported reflect the environmental conditions surrounding a situation including but limited to test environments. Refer to 003061 Data Element Dictionary for acceptable code values. MEA02 738 **Measurement Qualifier** ID 1/3 O Code identifying a specific product or process characteristic to which a measurement applies 'ADM' Dye Manufacturing Units 'AGI' Aggressive Index 'CRF' Free Chlorine Residual 'CRT' Total Chlorine Residual 'CTT' Contact Time 'FLV' Flavor Threshold 'LAI' Langlier Index 'BR' Luminance (brightness) 'PX' Purity 'COL' Color Units 'ABO' Absorbance 'OTH' Odor Threshold 'FR' Flow Rate 'PHA' pH Measurement 'TUR' Turbidity

MEA03 739 Measurement Value X R 1/20

'OBT' Observed Temperature (Sample Water Temperature)

Refer to 003061 Data Element Dictionary for acceptable code values.

'FLV' Flavor Threshold

The value of the measurement

MEA04 C001 Composite Unit of Measure X

To identify a composite unit of measure(See Figures Appendix for examples of use.)

'UN' Unit

'ML' Milliliter

'LT' Liter

'ML::100' 100Milliliters

'ML::400' 400Milliliters

'GA' Gallon

'GA::100' 100 Gallons

'GA::400' 400 Gallons

'CE' Degrees Celsius

'FA' Degrees Fahnenheit

'M1' Milligrams per liter

'59' Parts per million

'MC:::LT:-1' Micrograms per liter

'61' Parts per Billion

'R8::.001' Millirems

'R8::.001:LT:-1::YR:-1' Millirems per liter per year

'4D::.000000000001:LT:-1' Picocuries per liter

'GR::.000000001:LT:-1' Nanograms per liter

'MR::.000000001' Nanometers

'GE' Pounds per Gallon

'87' Pounds per Cubic foot

'ZP::1000000:LT:-1 Millions of fibers per liter

'NR:::CM:-1' Microhos per centimeter

C00101 355 Unit or Basis for Measurement Code

X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

'UN' Unit

'ML' Milliliter

'LT' Liter

'GA' Gallon

'CE' Degrees Celsius

'FA' Degrees Fahrenheit

'FK' Fibers

'M1' Milligrams per Liter

'59' Parts per Million

'MC' Micrograms per Liter

'61' Parts per Billion

'R8' Millirems

'4D' Picocuries per Liter

'GR' Nanograms per liter

'MR' Nanometers

'GE' Pounds per Gallon

'87' Pounds per Cubic Foot

'ZP' Million of Fibers per liter.....

'NR' Microhos per Centimeter.....

'FK' Fibers

Refer to 003061 Data Element Dictionary for acceptable code values.

C00102 1018 Exponent O R 1/15

Power to which a unit is raised

C00103 649 Multiplier O R 1/10

		Value to be used as a multiplier to obtain a new value			
		100			
		400			
		1000000			
		.001			
		.00000000001			
		.000000001			
C00104	355	Unit or Basis for Measurement Code	O	ID	2/2
		Code specifying the units in which a value is being expre	essed, o	r man	ner in
		which a measurement has been taken			
		'LT' Liter			
		'CM' Centimeter	_	_	
		Refer to 003061 Data Element Dictionary for acceptable			
C00105	1018	Exponent	O	R	1/15
		Power to which a unit is raised			
		'-1'			
C00106	649	Multiplier	O	R	1/10
		Value to be used as a multiplier to obtain a new value			
C00107	355	Unit or Basis for Measurement Code	O	ID	2/2
		Code specifying the units in which a value is being expre	essed, o	r man	ner in
		which a measurement has been taken			
		'YR' Per Year			
		Refer to 003061 Data Element Dictionary for acceptable	code va	ılues.	
C00108	1018	Exponent	O	R	1/15
		Power to which a unit is raised			
		'-1'			
C00109	649	Multiplier	O	R	1/10
		Value to be used as a multiplier to obtain a new value			
C00110	355	Unit or Basis for Measurement Code	O	ID	2/2
		Code specifying the units in which a value is being expre	essed, o	r man	ner in
		which a measurement has been taken			
		Refer to 003061 Data Element Dictionary for acceptable	code va	ılues.	
C00111	1018	Exponent	O	R	1/15
		Power to which a unit is raised			
C00112	649	Multiplier	O	R	1/10
		Value to be used as a multiplier to obtain a new value			
C00113	355	Unit or Basis for Measurement Code	O	ID	2/2
		Code specifying the units in which a value is being expre	essed, o	r man	ner in
		which a measurement has been taken			
		Refer to 003061 Data Element Dictionary for acceptable	code va	ılues.	
C00114	1018	Exponent	O	R	1/15
		Power to which a unit is raised			
C00115	649	Multiplier	O	R	1/10
C00115		Value to be used as a multiplian to obtain a new value			
C00113		Value to be used as a multiplier to obtain a new value			
MEA05	740	Range Minimum	X	R	1/20
				R	1/20
		Range Minimum		R	1/20
		Range Minimum The value specifying the minimum of the measurement r Minimum regulatory or laboratory detection level.	ange		
		Range Minimum The value specifying the minimum of the measurement r Minimum regulatory or laboratory detection level. Note: To convey the minimum regulatory or minimum level.	ange		
		Range Minimum The value specifying the minimum of the measurement r Minimum regulatory or laboratory detection level.	ange		

 \mathbf{X}

	MEA07	935	Measurement Significance Code	O	ID	2/2
			Code used to benchmark, qualify or further define a measur	remei	nt valu	e
			'07' Less than			
			Note: Used to convey the fact that the test results were less identified in MEA05.	than	the le	vel
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	MEA08	936	Measurement Attribute Code	X	ID	2/2
			Code used to express an attribute response when a numeric value cannot be determined	meas	sureme	ent
			'05' Undetectable			
			'44' Not reportable/Not applicable			
			Note: Used when the test results are either below detection reporting level.	level	or reg	ulatory
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that i	O s beir	ID ng desc	2/2 cribed
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	MEA10	1373	Measurement Method or Device The method or device used to record the measurement	0	ID	2/4
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	

Segment: DTM Date/Time Reference

Position: 160
Loop: MEA
Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM02 DTM03 or DTM06 is required.

2 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes: Comments:

			Data Element Summary			
	Ref.	Data				
	Des.	Element	<u>Name</u>	Att	ributes	<u> </u>
>>	DTM01	374	Date/Time Qualifier	M	ID	3/3
			Code specifying type of date or time, or both date and time			
			'090' Analysis Start Date			
			'091' Analysis Completion Date			
			'621' State Notification Date			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	DTM02	373	Date	\mathbf{X}	DT	6/6
			Date (YYMMDD)			
	DTM03	337	Time	\mathbf{X}	TM	4/8
			Time expressed in 24-hour clock time as follows: HHMM,	or HI	HMMS	S, or
			HHMMSSD, or HHMMSSDD, where $H = hours (00-23)$, $M = hours (00-23)$			
			59), $S = integer seconds (00-59)$ and $DD = decimal seconds$	s; dec	imal s	econds
			are expressed as follows: $D = tenths (0-9)$ and $DD = hundressed (0-9)$	edths	(00-99)))
			Expressed as HHMM			
X	DTM04	623	Time Code	O	ID	2/2
			Code identifying the time. In accordance with International			
			Organization standard 8601, time can be specified by a + o			
			indication in hours in relation to Universal Time Coordinat			
			since + is a restricted character, + and - are substituted by l	and	M in t	he
			codes that follow	1	1	
T 7	D	60.4	Refer to 003061 Data Element Dictionary for acceptable co			2 (2
X	DTM05	624	Century The first translation in the desired for a fall area (CC)	0	N0	2/2
			The first two characters in the designation of the year (CC)			
	DTM06	1250	Date Time Period Format Qualifier	X	ID	2/3
			Code indicating the date format, time format, or date and to	me f	ormat	
			'D8' Date expressed CCYYMMDD			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	DTM07	1251	Date Time Period	\mathbf{X}	AN	1/35
			Expression of a date, a time, or range of dates, times or dat	es an	d times	3
			Expressed as CCYYMMDD			

Segment: REF Reference Identification

Position: 170
Loop: MEA
Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.

Comments: Notes:

Note: If the LIN/CID/MEA loop is used at least one occurrences of the REF is required in the LIN/CID/MEA loop for data quality. A second iteration is required to convey

rejection reason if data quality code equals 'R' .

			Data Element Summary			
>>	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier Code Qualifying the Reference Identification	Attı M	ributes ID	2/3
			'D0' Data quality '7D' Tester Identification '7E' Collector Identification '7F' Repeat Location '7G' Data quality reject reason '7H' EPA test purpose code			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	REF02	127	Reference Identification	X	AN	1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier Data Quality	on Se	t or as	
			'A' Accepted			
			'R' Rejected 'P' Preliminary			
			Data Quality reject reason 'RC' Requestor Cancelled			
			'IF' Instrument Failure 'LE' Lab Error			
			'OT' Other 'WR' Water System Rejected			
			'LC' Lab not Certified			
			'TNTC' Too Numerous to count 'CNFG' Confluent Growth			
			'TCNG' Turbid Culture No Gas			
			Test Type			
			'C' Confirmed			
X	REF03	352	'P' Presumptive Description	X	AN	1/80
			A free-form description to clarify the related data elements			
X	REF04	C040	Reference Identifier	O	1	
			To identify one or more reference numbers or identification specified by the Reference Qualifier	num	ibers as	S
X EPA863I	C04001	128	Reference Identification Qualifier	M	ID June	2/3 24, 1997
21 / 10031			50		June	- 1, 1///

			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable code	ve	ılues.	
\mathbf{X}	C04002	127	Reference Identification	M	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transaction	ιSe	et or as	
			specified by the Reference Identification Qualifier			
X	C04003	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable code	ve	ılues.	
X	C04004	127	Reference Identification	X	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transaction	Sε	et or as	
			specified by the Reference Identification Qualifier			
X	C04005	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable code	va:	ılues.	
X	C04006	127	Reference information as defined for a particular Transaction	X Se	AN et or as	1/30
			specified by the Reference Identification Qualifier			

Segment: LM Code Source Information

Position: 172
Loop: LM
Level: Detail
Usage: Optional

Max Use: 1

Purpose: To transmit standard code list identification information

Syntax Notes: Semantic Notes:

Comments: 1 LM02 identifies the applicable industry code list source information.

>>	Ref. <u>Des.</u> LM01	Data Element 559	Name Agency Qualifier Code Code identifying the agency assigning the code values	Att:	ributes ID	<u>s</u> 2/2
			'EP' Environmental Protection Agency			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	LM02	822	Source Subqualifier	O	$\mathbf{A}\mathbf{N}$	1/15
			A reference that indicates the table or text maintained by the	ie Soi	urce Q	ualifier
			'MCB1' Microbiological table of result 'SSTR' Sample Summary Table of Results			

Segment: LQ Industry Code

Position: 174
Loop: LM
Level: Detail
Usage: Mandatory

Max Use: >1

Purpose: Code to transmit standard industry codesSyntax Notes: 1 If LQ01 is present, then LQ02 is required.

Semantic Notes: Comments:

Notes:

Note: This segment is mandatory if a LM segment is present.

X	Ref. <u>Des.</u> LQ01	Data Element 1270	Name Code List Qualifier Code Code identifying a specific industry code list	O	ributes ID	1/3
	LQ02	1271	Refer to 003061 Data Element Dictionary for acceptable co Industry Code Code indicating a code from a specific industry code list	X	AN	1/30
			'COLONIES' Colonies 'TUBES' Tubes 'MPN' Most Portable Number 'FCU' Colony forming units 'PFU' Plaque forming units 'CYSTSO' Cysts, observed (Giardia Lamblia) 'OCYSTSO' Oocyst, observed (Cryptosporidium) 'CYSTSC' Cysts, calculated (Giardia Lamblia) 'OCYSTSC' Oocysts, calculated (Cryptosporidium) 'OBSVNS' Observations (for measuring other organism)			

Segment: TMD Test Method

Position: 201
Loop: TMD
Level: Detail
Usage: Optional

Max Use: 1

Ref.

Purpose: To describe the nature of the test performed

Syntax Notes: 1 If either TMD02 or TMD03 is present, then the other is required.

2 If TMD09 is present, then TMD02 is required.

Semantic Notes: 1 TMD07 is the date of the test method as assigned by the issuing organization.

2 TMD08 is the document revision number.

Comments: 1 TMD09 specifies the individual code list of the agency specified in TMD02.

Note: The TMD loop is used when an EPA defined analysis method applies to the test

results reported.

Data

	Des.	Element	<u>Name</u>	Att	ribute	<u>s</u>
	TMD01	750	Product/Process Characteristic Code	O	ID	2/3
			Code identifying the general class of a product or process	charac	cteristic	c
			'RM' Results Method Code			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
	TMD02	559	Agency Qualifier Code	X	ID	2/2
			Code identifying the agency assigning the code values			
			'EP' Environment Protection Agency Code List			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
	TMD03	751	Product Description Code	X	$\mathbf{A}\mathbf{N}$	1/12
			A code from an industry code list which provides specific characteristic	data a	bout a	product
			Approved code from code list			
X	TMD04	937	Test Administration Method Code	O	ID	2/2
			Code specifying the method of administering the test			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va		
X	TMD05	938	Test Medium Code	0	ID	2/2
			Code specifying organism on which the test was performed			
			Refer to 003061 Data Element Dictionary for acceptable co			
X	TMD06	352	Description	0	AN	1/80
v	TMD07	272	A free-form description to clarify the related data elements			
X	TMD07	373	Date Date (YYMMDD)	0	DT	6/6
X	TMD08	127	Reference Identification	O	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transacti	ion Se	et or as	
W	TMDOO	022	specified by the Reference Identification Qualifier	•	A TAT	1/15
X	TMD09	822	Source Subqualifier A reference that indicates the table or text maintained by the	O he So	AN urce O	1/15 ualifier
			A reference that indicates the table of text maintained by the	IC 50	uice Q	uamme

CTT Transaction Totals **Segment: Position:** 005 Loop: Level: Summary Usage: Optional Max Use: **Purpose:** To transmit a hash total for a specific element in the transaction set **Syntax Notes:** If either CTT03 or CTT04 is present, then the other is required. If either CTT05 or CTT06 is present, then the other is required. **Semantic Notes: Comments:** 1 This segment is intended to provide hash totals to validate transaction completeness and correctness. Note: One iteration of the CTT segment is required. **Notes: Data Element Summary** Ref. Data Attributes Des. **Element** Name >> CTT01 354 **Number of Line Items** N₀ 1/6 Total number of line items in the transaction set The number in CTT01 element is the total number of LIN segments in the TS. CTT02 347 **Hash Total** O R 1/10 Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value

 \mathbf{X}

			being hashed. 1.8 Third occurrence of value being hashed occurrence of value being hashed 1855 Hash total 855 Hash total after truncation to three-digit field.			
\mathbf{X}	CTT03	81	Weight	X	R	1/10
			Numeric value of weight			
X	CTT04	355	Unit or Basis for Measurement Code	\mathbf{X}	ID	2/2
			Code specifying the units in which a value is being expressible a measurement has been taken Refer to 003061 Data Element Dictionary for acceptable of			ner in
\mathbf{X}	CTT05	183	Volume	\mathbf{X}	R	1/8
			Value of volumetric measure			
\mathbf{X}	CTT06	355	Unit or Basis for Measurement Code	\mathbf{X}	ID	2/2
			Code specifying the units in which a value is being expressible a measurement has been taken Refer to 003061 Data Element Dictionary for acceptable of			ner in
X	CTT07	352	Description A free-form description to clarify the related data element	O as and	AN their c	1/80 ontent

Segment: ${\bf SE}$ Transaction Set Trailer

Position: 010

Loop:

Level: Summary Usage: Mandatory

Max Use: 1

Purpose: To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

	Ref.	Data				
	Des.	Element	<u>Name</u>	Att	ribute	<u>s</u>
>>	SE01	96	Number of Included Segments	M	N ₀	1/10
			Total number of segments included in a transaction set inc segments	luding	g ST a	nd SE
>>	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the functional group assigned by the originator for a transaction			4/9 set

863 Report of Test Results

Functional Group ID=RT

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Report of Test Results Transaction Set (863) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to transmit the results of tests performed to satisfy a specified product or process requirement. This includes, but is not limited to, test data such as inspection data, certification data, and statistical process control measurements.

Notes:

Used for reporting summary sample test results for Lead and Copper, Chemicals, Radionuclides, Water Quality, Total Coliform and Microbiological samples.

Heading:

Must Use	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Req. Des. M	Max.Use	Loop <u>Repeat</u>	Notes and Comments
Must Use	020	BTR	Beginning Segment for Test Results	M	1		
Not Used	040	REF	Reference Identification	O	12		
Not Used	050	DTM	Date/Time Reference	O	10		
Not Used	060	PID	Product/Item Description	O	200		
Not Used	065	TMD	Test Method	O	1		
Not Used	070	MEA	Measurements	O	20		
			LOOP ID - N1			>1	
	080	N1	Name	O	1		
Not Used	090	N2	Additional Name Information	O	2		
Not Used	100	N3	Address Information	O	2		
Not Used	110	N4	Geographic Location	O	1		
	120	REF	Reference Identification	O	12		
			LOOP ID - PER			>1	
	130	PER	Administrative Communications Contact	О	1		
Not Used	140	REF	Reference Identification	O	>1		n1

Detail:

	Pos. No.	Seg. <u>ID</u>	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	- 101	_	LOOP ID - LIN			>1	
	010	LIN	Item Identification	О	1		
Not Used	020	PID	Product/Item Description	O	1000		
Not Used	025	TMD	Test Method	O	1		
Not Used	030	MEA	Measurements	O	20		
Not Used	031	PSD	Physical Sample Description	O	>1		
Not Used	032	SPS	Sampling Parameters for Summary Statistics	O	>1		
Not Used	034	QTY	Quantity	O	10		
Must Use	040	DTM	Date/Time Reference	M	10		

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	045	NTE	Note/Special Instruction	O	1	
Not Used	050	REF	Reference Identification	О	1000	
			LOOP ID - N1			10
	051	N1	Name	О	1	
Not Used	052	N2	Additional Name Information	O	2	
Not Used	053	N3	Address Information	O	2	
Not Used	054	N4	Geographic Location	O	1	
Not Used	055	REF	Reference Identification	O	10	
Not Used	056	PER	Administrative Communications Contact	O	3	
Not Used	057	QTY	Quantity	O	10	
			LOOP ID - CID			>1
Must Use	060	CID	Characteristic/Class ID	M	1	
Not Used	070	UIT	Unit Detail	O	1	
Not Used	090	PSD	Physical Sample Description	O	>1	
Not Used	100	SPS	Sampling Parameters for Summary Statistics	O	>1	
Not Used	120	DTM	Date/Time Reference	O	10	
Not Used	130	REF	Reference Identification	O	10	
			LOOP ID - MEA			>1
	150	MEA	Measurements	О	1	
Not Used	160	DTM	Date/Time Reference	O	10	
Not Used	170	REF	Reference Identification	O	10	
			LOOP ID - LM			>1
	172	LM	Code Source Information	О	1	
Must Use	174	LQ	Industry Code	M	>1	
			LOOP ID - STA			>1
Not Used	180	STA	Statistics	О	1	
Not Used	190	DTM	Date/Time Reference	O	10	
Not Used	195	REF	Reference Identification	O	10	
			LOOP ID - LM			>1
Not Used	197	LM	Code Source Information	О	1	
Not Used	200	LQ	Industry Code	M	>1	
			LOOP ID - TMD			100
	201	TMD	Test Method	О	1	
Not Used	202	MEA	Measurements	O	>1	
Not Used	203	DTM	Date/Time Reference	O	10	
Not Used	204	REF	Reference Identification	O	10	
			LOOP ID - TSP			>1
Not Used	210	TSP	Test Period or Interval	О	1	
Not Used	220	MEA	Measurements	O	>1	
Not Used	230	DTM	Date/Time Reference	O	10	
Not Used	240	REF	Reference Identification	О	10	
			LOOP ID - LM			>1
Not Used	242	LM	Code Source Information	О	1	
Not Used	244	LQ	Industry Code	M	>1	

Summary:

Pos.	Seg.		Req.	Loop	Notes and
No.	ID	Name	Des. Max.	Use Repeat	Comments

	005	CTT	Transaction Totals	O	1
Must Use	010	SE	Transaction Set Trailer	M	1

Transaction Set Notes

1. The REF segment is to be used to send identification numbers associated with party referenced in the PER.

Segment: ST Transaction Set Header

Position: 010

Loop:
Level: Heading
Usage: Mandatory

Max Use: 1

Purpose: To indicate the start of a transaction set and to assign a control number.

Syntax Notes: Semantic Notes:

1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Comments:

Notes: To indicate the start of a transaction set and to assign a control number

>>	Ref. <u>Des.</u> ST01	Data Element 143	Name Transaction Set Identifier Code Code uniquely identifying a Transaction Set	Attı M	ributes ID	3/3
			"863" X12.41 Report of Test Results. This implementation of the 863 Report of Test Results is us submission of drinking water test results from laboratories to State ages			
>>	ST02	329	Refer to 003061 Data Element Dictionary for acceptable co	de va M	lues.	4/9
//	5102	349	Identifying control number that must be unique within the functional group assigned by the originator for a transaction	transa	,	

Segment: BTR Beginning Segment for Test Results

Position: 020

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

Purpose: To indicate the beginning of a test results transaction set

Syntax Notes: Semantic Notes:

- 1 If BTR01 equals "01", "02", "03", "04", "05", "18" or "19", then BTR06 is required to identify the original test report reference number transmitted.
- 2 BTR02 is the date that this transaction set was created by the sending party.
- **3** BTR03 is the time that this transaction set was created by the sending party.
- 4 BTR05 specifies test results report reference number created by the sending party.

Comments:

	Ref. Des.	Data <u>Element</u>	Name	Attı	ributes	<u>s</u>			
>>	BTR01	353	Transaction Set Purpose Code Code identifying purpose of transaction set	M	ID	2/2			
			'00' Original '15' Resubmission						
>>	BTR02	373	Date Date (YYMMDD)	M	DT	6/6			
			Creation date for drinking water test results. YYMMDD						
X	BTR03	337	Time Time expressed in 24-hour clock time as follows: HHMM, HHMMSSD, or HHMMSSDD, where H = hours (00-23), N	M = m	ninutes	(00-			
			59), $S = \text{integer seconds}$ (00-59) and $DD = \text{decimal second}$						
	BTR04	755	are expressed as follows: $D = tenths (0.9)$ and $DD = hundr$	eaths	(00-95				
>>	B1 K04	755	Report Type Code Code indicating the title or contents of a document, report	_		2/2 g item			
			Code identifying the type of report. 'W2' Summary of Safe Drinking Water Report	1	1				
			Refer to 003061 Data Element Dictionary for acceptable co						
>>	BTR05	127	Reference Identification Reference information as defined for a particular Transacti specified by the Reference Identification Qualifier Number assigned by laboratory for the report.	O on Se	AN t or as	1/30			
	DTD04	127	Reference Identification	O	A NT	1/20			
	BTR06	127	Reference Identification Reference information as defined for a particular Transacti specified by the Reference Identification Qualifier Required when report is a resubmission to provide original	on Se		1/30 ber			
X	BTR07	786	Security Level Code	0	ID	2/2			
	= 		Code indicating the level of confidentiality assigned by the information following Refer to 003061 Data Element Dictionary for acceptable co	sende	er to th	-			

Segment: N1 Name

Position: 080
Loop: N1
Level: Heading
Usage: Optional

Max Use:

Purpose: To identify a party by type of organization, name, and code

Syntax Notes: 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes: Comments:

1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Note: Two occurrences of the N1 loop are required at this location in the transaction set.

One is required to identify the testing lab submitting the report. The second to identify

the State/agency where the report is being sent.

	Ref.	Data	•					
	Des.	Element	<u>Name</u>	Attr	ributes	<u> </u>		
>>	N101	98	Entity Identifier Code	M	ID	2/2		
			Code identifying an organizational entity, a physical location, or an individual					
			'R5' State					
			'TL' Testing Lab					
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.			
	N102	93	Name	X	$\mathbf{A}\mathbf{N}$	1/35		
			Free-form name					
			Name of the testing lab or State including agency					
>>	N103	66	Identification Code Qualifier	X	ID	1/2		
			Code designating the system/method of code structure used	for I	dentific	cation		
			Code (67)					
			Code identifying the source of the number in N104					
			'75' State ID Number					
			'FN' EPA Laboratory Certification ID					
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.			
>>	N104	67	Identification Code	X	$\mathbf{A}\mathbf{N}$	2/20		
			Code identifying a party or other code					
			Appropriate identification number					
X	N105	706	Entity Relationship Code	O	ID	2/2		
			Code describing entity relationship					
			Refer to 003061 Data Element Dictionary for acceptable code values.					
X	N106	98	Entity Identifier Code	O	ID	2/2		
			Code identifying an organizational entity, a physical location	on, or	an ind	lividual		
			Refer to 003061 Data Element Dictionary for acceptable code values.					

Segment: REF Reference Identification

Position: 120
Loop: N1
Level: Heading
Usage: Optional
Max Use: 12

Purpose: To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: Comments:

Notes:

1 REF04 contains data relating to the value cited in REF02.

This segment must be included in the N1 loop identifying the testing laboratory to convey the PIN when N101 equals 'TL'.

	Ref.	Data				
>>	<u>Des.</u> REF01	Element 128	Name Reference Identification Qualifier	Attı M	ributes ID	2/3
//	KETUI	120	Code Qualifying the Reference Identification	141	Ш	213
			'4A' A number that uniquely identifies a testing laboratory supplied by the state or the federal government.	. The	e numb	er is
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	REF02	127	Reference Identification	X	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	on Se	t or as	
X	REF03	352	Description A free-form description to clarify the related data elements	X and t	AN their co	1/80 ontent
X	REF04	C040	Reference Identifier	O		
			To identify one or more reference numbers or identification specified by the Reference Qualifier	ı num	ibers as	1
X	C04001	128	Reference Identification Qualifier Code Qualifying the Reference Identification	M	ID	2/3
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	C04002	127	Reference Identification	M	AN	1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	on Se	t or as	
X	C04003	128	Reference Identification Qualifier Code Qualifying the Reference Identification	X	ID	2/3
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	C04004	127	Reference Identification	X	AN	1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	on Se	t or as	
X	C04005	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification	,		
3 7	C0.400.6	105	Refer to 003061 Data Element Dictionary for acceptable co			1 /20
X	C04006	127	Reference Identification Reference information as defined for a particular Transaction	X on Se	AN et or as	1/30
			specified by the Reference Identification Qualifier	<i>,</i> 11 00	t or us	

Segment: PER Administrative Communications Contact

Position: 130
Loop: PER
Level: Heading
Usage: Optional

Max Use:

Purpose: To identify a person or office to whom administrative communications should be

directed

Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.

- $2\ \ \,$ If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes: Comments:

Notes: Note: This segment should be included in the N1 loop identifying the Testing Lab if an

identification of the certifying party is required.

	Ref.	Data	Butta Element Summary			
	Des.	Element	<u>Name</u>	Att	ributes	
>>	PER01	366	Contact Function Code	M	ID	2/2
			Code identifying the major duty or responsibility of the pers	on o	r group)
			named 'CE' Certifier			
					1	
	DEDOA	0.2	Refer to 003061 Data Element Dictionary for acceptable coo			1/05
	PER02	93	Name	0	AN	1/35
			Free-form name			
			Name of certifying individual.			
X	PER03	365	Communication Number Qualifier Code identifying the type of communication number	X	ID	2/2
			Refer to 003061 Data Element Dictionary for acceptable coo	le va	lues.	
X	PER04	364	Communication Number	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/80
			Complete communications number including country or are applicable	a coo	de whe	n
X	PER05	365	Communication Number Qualifier	\mathbf{X}	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable coo	le va	lues.	
X	PER06	364	Communication Number	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/80
			Complete communications number including country or are applicable	a coo	de whe	n
X	PER07	365	Communication Number Qualifier	\mathbf{X}	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable coo	de va	lues.	
X	PER08	364	Communication Number	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/80
			Complete communications number including country or are applicable	a coo	de whe	n
X	PER09	443	Contact Inquiry Reference	0	$\mathbf{A}\mathbf{N}$	1/20
			Additional reference number or description to clarify a cont	act n	umber	

Segment: LIN Item Identification

Position: 010
Loop: LIN
Level: Detail
Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes: 1 If either LIN04 or LIN05 is present, then the other is required.

- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- **8** If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- **14** If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: Comments:

1 LIN01 is the line item identification

1 See the Data Dictionary for a complete list of IDs.

2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., or SKU.

Notes:

Note: One LIN loop should be created for each sample being reported. Each LIN loop must start with the LIN segment. A transaction set can accommodate multiple sample reports.

	Ref.	Data								
	Des.	Element	<u>Name</u>	Attı	ributes	<u>3</u>				
X	LIN01	350	Assigned Identification	O		1/20				
			Alphanumeric characters assigned for differentiation within	ı a tra	ansacti	on set				
>>	LIN02	235	Product/Service ID Qualifier	M	ID	2/2				
			Code identifying the type/source of the descriptive number	used	in					
			Product/Service ID (234)							
			'TU' Tested material identification number.							
			Refer to 003061 Data Element Dictionary for acceptable code values.							
>>	LIN03	234	Product/Service ID	\mathbf{M}	$\mathbf{A}\mathbf{N}$	1/40				
			Identifying number for a product or service							
			Sample Category Identification							
			'PB' Lead and Copper							
			'CH' Chemicals							
			'XX' Cancel							
			'GE' General Samples							
			'RA' Radionuclides							
			'PP' Water Quality							
			'TC' Total Coliform							
	T TNIO 4	225	'MB' Microbiological	₹7	ID	2/2				
	LIN04	235	Product/Service ID Qualifier	X	ID	2/2				
			Code identifying the type/source of the descriptive number	used	in					
			Product/Service ID (234)							
			'S4' Laboratory Sample Identification							

			'S5' State Sample Identification 'S6' Previous Sample Identification	_		
			Refer to 003061 Data Element Dictionary for acceptable co			
	LIN05	234	Product/Service ID	X	AN	1/40
			Identifying number for a product or service			
			Appropriate sample number as assigned by the laboratory of as an identification of the sample.			
	LIN06	235	Product/Service ID Qualifier	X	ID	2/2
			Code identifying the type/source of the descriptive number Product/Service ID (234) 'S6' Previous Sample Identification	used	in	
			Note: Required when sample type in PID04 equals RP Rep Refer to 003061 Data Element Dictionary for acceptable co		ılues.	
	LIN07	234	Product/Service ID	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/40
			Identifying number for a product or service			
			Note: Appropriate sample number as assigned by the labor Used as an identification of the previous sample.	ratory	or the	e state.
X	LIN08	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234)	X used	ID in	2/2
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	LIN09	234	Product/Service ID	\mathbf{X}	AN	1/40
			Identifying number for a product or service			
X	LIN10	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234)	X used	ID in	2/2
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	LIN11	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN12	235	Product/Service ID Qualifier	X	ID	2/2
1	211(12	200	Code identifying the type/source of the descriptive number Product/Service ID (234)	used	in	-/-
T 7	T 1344.0	22.4	Refer to 003061 Data Element Dictionary for acceptable co			4.440
X	LIN13	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN14	235	Product/Service ID Qualifier	\mathbf{X}	ID	2/2
			Code identifying the type/source of the descriptive number Product/Service ID (234)			
v	T IN15	224	Refer to 003061 Data Element Dictionary for acceptable co Product/Service ID			1/40
X	LIN15	234	Identifying number for a product or service	X	AN	1/40
X	LIN16	235	Product/Service ID Qualifier	X	ID	2/2
			Code identifying the type/source of the descriptive number	used	in	
			Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable co	do ve	luce	
X	LIN17	234	Product/Service ID	X	AN	1/40
Λ	LINI/	234	Identifying number for a product or service	А	AIN	1/40
X	LIN18	235	Product/Service ID Qualifier	X .	ID	2/2
			Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable co			
X	LIN19	234	Product/Service ID	X	AN	1/40
			Identifying number for a product or service	Λ		
X	LIN20	235	Product/Service ID Qualifier	\mathbf{X}	ID	2/2

			Code identifying the type/source of the descriptive number us Product/Service ID (234)	ed i	in	
			Refer to 003061 Data Element Dictionary for acceptable code	va	lues.	
X	LIN21	234	Product/Service ID Identifying number for a product or service		AN	1/40
X	LIN22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number us Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable code	ed i		2/2
X	LIN23	234	Product/Service ID Identifying number for a product or service		AN	1/40
X	LIN24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number us Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable code	ed i		2/2
X	LIN25	234	Product/Service ID Identifying number for a product or service		AN	1/40
X	LIN26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number us Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable code	ed i		2/2
X	LIN27	234	Product/Service ID Identifying number for a product or service		AN	1/40
X	LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number us Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable code	ed i		2/2
X	LIN29	234	Product/Service ID Identifying number for a product or service		AN	1/40
X	LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number us Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable code	ed i		2/2
X	LIN31	234	Product/Service ID Identifying number for a product or service		AN	1/40

Segment: DTM Date/Time Reference

Position: 040
Loop: LIN
Level: Detail
Usage: Mandatory

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM02 DTM03 or DTM06 is required.

2 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:

Comments:

Notes: Note: Two DTM Segments per LIN loop are required to identify report start date and

report end date.

	Ref.	Data							
	Des.	Element 27.4	Name		<u>ributes</u>	-			
>>	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time	M	ID	3/3			
			Code specifying type of date or time, or both date and time						
			'090' Report Start Date '091' Report End Date						
			091 Report Elia Date						
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.				
X	DTM02	373	Date	X	DT	6/6			
			Date (YYMMDD)						
X	DTM03	337	Time	X	TM	4/8			
			Time expressed in 24-hour clock time as follows: HHMM,						
			HHMMSSD, or HHMMSSDD, where $H = hours$ (00-23), $M = minutes$ (00-						
			59), S = integer seconds (00-59) and DD = decimal seconds						
X	DTM04	623	are expressed as follows: D = tenths (0-9) and DD = hundre Time Code	eaths O	(00-99	9) 2/2			
Λ	D111104	023	Code identifying the time. In accordance with International	•		212			
			Organization standard 8601, time can be specified by a + o						
			indication in hours in relation to Universal Time Coordinat			ne;			
			since + is a restricted character, + and - are substituted by I						
			codes that follow						
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.				
X	DTM05	624	Century	\mathbf{o}	N0	2/2			
			The first two characters in the designation of the year (CCY	YY)					
	DTM06	1250	Date Time Period Format Qualifier	X	ID	2/3			
			Code indicating the date format, time format, or date and ti	me f	ormat				
			'D8' Date expressed CCYYMMDD						
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.				
	DTM07	1251	Date Time Period	X	$\mathbf{A}\mathbf{N}$	1/35			
			Expression of a date, a time, or range of dates, times or date	es an	d times	S			
			Expressed as CCYYMMDD						
			•						

Segment: NTE Note/Special Instruction

Position: 045
Loop: LIN
Level: Detail
Usage: Optional

Max Use: 1

Purpose: To transmit information in a free-form format, if necessary, for comment or special

instruction

Syntax Notes: Semantic Notes:

Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12

standard implementations, is not machine processable. The use of the NTE segment

should therefore be avoided, if at all possible, in an automated environment.

	Ref.	Data				
	Des.	Element	<u>Name</u>	Att	ribute	<u>s</u>
\mathbf{X}	NTE01	363	Note Reference Code	O	ID	3/3
			Code identifying the functional area or purpose for which t	he no	te app	lies
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
>>	NTE02	352	Description	M	$\mathbf{A}\mathbf{N}$	1/80
			A free-form description to clarify the related data elements	and t	heir co	ontent

N1 Name **Segment: Position:** 051 Loop: N1 Level: Detail Usage: Optional Max Use: To identify a party by type of organization, name, and code **Purpose: Syntax Notes:** At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required. **Semantic Notes: Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. N105 and N106 further define the type of entity in N101. Note: At least one occurrence of the N1 loop is required at this location in the **Notes:**

transaction set to identify the water system.

			Data Element Summary			
	Ref.	Data				
	Des.	Element	<u>Name</u>	Att	ributes	<u>s</u>
>>	N101	98	Entity Identifier Code	\mathbf{M}	ID	2/2
			Code identifying an organizational entity, a physical locati	on, o	r an inc	dividual
			'WS' Water System			
			'FA' Water Facility			
			'W9' Sampling Location			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	ılues.	
	N102	93	Name	X	$\mathbf{A}\mathbf{N}$	1/35
			Free-form name			
			The name of the water system, water facility or sampling le	ocatio	n.	
>>	N103	66	Identification Code Qualifier	\mathbf{X}	ID	1/2
			Code designating the system/method of code structure used	for I	dentifi	cation
			Code (67)			
			Code identifying the number in N104			
			'FA' Facility			
			'FN' EPA Laboratory Certification Identification		.1	
	31404	. =	Refer to 003061 Data Element Dictionary for acceptable co			2/20
>>	N104	67	Identification Code	X	AN	2/20
			Code identifying a party or other code			
			Appropriate identification number.			
	N105	706	Entity Relationship Code	O	ID	2/2
			Code describing entity relationship			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	N106	98	Entity Identifier Code	O	ID	2/2
			Code identifying an organizational entity, a physical locati	on, o	r an inc	dividual
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
			, 1			

Segment: CID Characteristic/Class ID

Position: 060
Loop: CID
Level: Detail
Usage: Mandatory

Max Use: 1

Purpose: To specify the general class or specific characteristic upon which test results are being

reported or are to be taken

Syntax Notes: 1 At least one of CID01 CID02 CID04 or CID05 is required.

- 2 If either CID03 or CID04 is present, then the other is required.
 3 If CID06 is present, then both CID03 and CID04 are required.
- 4 If CID07 is present, then at least one of CID04 or CID05 is required.

Semantic Notes:

Comments: 1 CID06 specifies the individual code list of the agency specified in CID03.

2 CID07 refers to whether or not the characteristic identified in CID04 or CID05 or both is affected by the product change. If it is affected, the value is "Y". A value of "N" is used when it is known that it will not be affected. Any other value indicates it is indeterminate.

Notes:

At least one iteration of the CID loop is required for each sample summary report. There will be a separate CID loop for each analyte tested and reported on. A transaction set can contain multiple CID loop.

	D 6	D 4	Data Element Summary			
	Ref.	Data				
	Des.	Element	<u>Name</u>		ributes	-
X	CID01	738	Measurement Qualifier	\mathbf{X}	ID	1/3
			Code identifying a specific product or process characteristic	ic to v	vhich a	
			measurement applies			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	ılues.	
X	CID02	750	Product/Process Characteristic Code	\mathbf{X}	ID	2/3
			Code identifying the general class of a product or process	charac	eteristic	2
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
>>	CID03	559	Agency Qualifier Code	\mathbf{X}	ID	2/2
			Code identifying the agency assigning the code values			
			'EP' EPA Analyte Code List			
			'CA' Chemical Abstract System Code List			
			Note: Choose either EPA or CAS Code List			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
>>	CID04	751	Product Description Code	X	$\mathbf{A}\mathbf{N}$	1/12
			A code from an industry code list which provides specific	data a	bout a	product
			characteristic			
			Appropriate code value from above list.			
	CID05	352	Description	X	$\mathbf{A}\mathbf{N}$	1/80
			A free-form description to clarify the related data elements	s and	their co	ontent
			Analyte Name			
X	CID06	822	Source Subqualifier	О	AN	1/15
			A reference that indicates the table or text maintained by the	he So	urce Q	ualifier
X	CID07	1073	Yes/No Condition or Response Code	O	ID	1/1
			Code indicating a Yes or No condition or response			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
			- 1			

MEA Measurements **Segment: Position:** 150 Loop: **MEA** Level: Detail Usage: Optional Max Use: **Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001) At least one of MEA03 MEA05 MEA06 or MEA08 is required. **Syntax Notes:** If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required. 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. 5 Only one of MEA08 or MEA03 may be present. **Semantic Notes:** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06. 1 **Comments:** When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value. Note: All summary results should be reported here. A separate CID loop should be **Notes:** used for each test method. **Data Element Summary** Ref. Data Element | Des. Name Attributes MEA01 737 **Measurement Reference ID Code** Code identifying the broad category to which a measurement applies 'TR' Test Results 'CT' Count Refer to 003061 Data Element Dictionary for acceptable code values. MEA02 738 **Measurement Qualifier** ID 1/3 Code identifying a specific product or process characteristic to which a measurement applies 'ADM' Dye Manifacturing Units 'AGI' Aggressive Index 'CRF' Free Chlorine Residual 'CRT' Total Chlorine Residual 'CTT' Contact Time 'FLV' Flavor Threshold 'LAI' Langlier Index 'BR' Luminance (Brightness) 'PX' Purity 'COL' Color Units 'ABO' Absorbance 'OTH' Odor Threshold 'FR' Flow Rate 'pHA' pH Measurement 'TUR' Turbidity 'OBT' Observed Temperature (Sample Water Temperature) 'FLV' Flavor Threshold Refer to 003061 Data Element Dictionary for acceptable code values. MEA03 739 **Measurement Value** X R 1/20

To identify a composite unit of measure(See Figures Appendix for examples of

 \mathbf{X}

The value of the measurement

Composite Unit of Measure

MEA04

C001

use.)
'UN' Unit

			'CE' Degrees Celsius			
			'FA' Degrees Fahrenheit			
			'M1' Milligrams per liter			
			'59' Parts per million			
			'MC:::LT:-1' Micrograms per liter			
			'61' Parts per billion			
			'ZZ::.001' millirems			
			'ZZ::.001:LT:-1:YR:-1' Milliremsper liter per year			
			'4D::.0000000001:LT:-1' Picocuries per liter			
			'GR::.000000001:LT:-1' Nanograms per liter 'MR::.000000001' Nanometers			
			'GE' Pounds per gallon			
			'87' Pounds per cubic foot			
			'ZP::1000000:LT:-1' Millions of Fibers per liter			
			'NR:::CM:-1' Microhos per centimeter			
			'FK' Fibers			
			'R8' Radioactive Equivalent in Man			
X	C00101	355	Unit or Basis for Measurement Code	X	ID	2/2
			Code specifying the units in which a value is being expres	sed, o	r manı	ner in
			which a measurement has been taken			
			Refer to 003061 Data Element Dictionary for acceptable c	ode va	lues.	
X	C00102	1018	Exponent	O	R	1/15
			Power to which a unit is raised			
X	C00103	649	Multiplier	O	R	1/10
			Value to be used as a multiplier to obtain a new value			
X	C00104	355	Unit or Basis for Measurement Code	O	ID	2/2
			Code specifying the units in which a value is being expres	sed, o		
			which a measurement has been taken			
			Refer to 003061 Data Element Dictionary for acceptable c	ode va	lues.	
X	C00105	1018	Exponent	O	R	1/15
			Power to which a unit is raised			
X	C00106	649	Multiplier	O	R	1/10
			Value to be used as a multiplier to obtain a new value			
X	C00107	355	Unit or Basis for Measurement Code	O	ID	2/2
			Code specifying the units in which a value is being expres	sed, o	r manı	ner in
			which a measurement has been taken			
			Refer to 003061 Data Element Dictionary for acceptable c	ode va	ılues.	
X	C00108	1018	Exponent	O	R	1/15
			Power to which a unit is raised			
X	C00109	649	Multiplier	O	R	1/10
			Value to be used as a multiplier to obtain a new value			
X	C00110	355	Unit or Basis for Measurement Code	O	ID	2/2
			Code specifying the units in which a value is being expres	sed, o	r manı	ner in
			which a measurement has been taken			
			Refer to 003061 Data Element Dictionary for acceptable c	ode va	ılues.	
X	C00111	1018	Exponent	O	R	1/15
			Power to which a unit is raised			
X	C00112	649	Multiplier	O	R	1/10
			Value to be used as a multiplier to obtain a new value			
X	C00113	355	Unit or Basis for Measurement Code	O	ID	2/2
	-		Code specifying the units in which a value is being expres	_		
			which a measurement has been taken	, -		
			Refer to 003061 Data Element Dictionary for acceptable c	ode va	lues.	
X	C00114	1018	Exponent	O	R	1/15
			Power to which a unit is raised			
X	C00115	649	Multiplier	0	R	1/10
			•			

			Value to be used as a multiplier to obtain a new value			
X	MEA05	740	Range Minimum The value specifying the minimum of the measurement ran	X	R	1/20
X	MEA06	741	Range Maximum The value specifying the maximum of the measurement ran	X	R	1/20
X	MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measure	O remei	ID nt valu	2/2 e
			Refer to 003061 Data Element Dictionary for acceptable co	de va	ılues.	
X	MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric value cannot be determined Refer to 003061 Data Element Dictionary for acceptable co			2/2 ent
X	MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is	O s bein	ID ng desc	2/2 cribed
			Refer to 003061 Data Element Dictionary for acceptable co	de va	ılues.	
X	MEA10	1373	Measurement Method or Device The method or device used to record the measurement Refer to 003061 Data Element Dictionary for acceptable co	O de va	ID alues.	2/4

Segment: LM Code Source Information

Position: 172
Loop: LM
Level: Detail
Usage: Optional

Max Use: 1

Purpose: To transmit standard code list identification information

Syntax Notes: Semantic Notes:

Comments: 1 LM02 identifies the applicable industry code list source information.

>>	Ref. <u>Des.</u> LM01	Data Element 559	Name Agency Qualifier Code Code identifying the agency assigning the code values	Att:	ributes ID	<u>s</u> 2/2
			'EP' Environmental Protection Agency		•	
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	ilues.	
	LM02	822	Source Subqualifier	O	$\mathbf{A}\mathbf{N}$	1/15
	he Sor	urce Q	ualifier			
			'MCB1' Microbiological Table of Results 'SSTR' Sample Summary Table of Results.			

LQ Industry Code **Segment:**

174 **Position:** Loop: LM Level: Detail Usage: Mandatory

Max Use: >1

Purpose: Code to transmit standard industry codes **Syntax Notes:** If LQ01 is present, then LQ02 is required.

Semantic Notes: Comments:

Note: This segment is mandatory if a LM segment is present. **Notes:**

	Def	Data	Data Element Summary			
	Ref.	Data Element	Nome	A 44	wihasta.	~
X	Des.	Element	Name Code List Ovelifier Code	$\frac{Au}{O}$	ribute: ID	<u>s</u> 1/3
Λ	LQ01	1270	Code List Qualifier Code Code identifying a specific industry code list	U	Ш	1/3
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	ilues.	
	LQ02	1271	Industry Code	\mathbf{X}	$\mathbf{A}\mathbf{N}$	1/30
			Code indicating a code from a specific industry code list			
			Sample Summary Table Results (SSTR Table)			
			Approved Values			
			'TO' Total samples collected			
			'RP' Repeat samples			
			'RT' Routine samples			
			'PO' Number of positive sample analytical results			
			'RJ' Rejected samples			
			'NE' Negative sample analytical results			
			'NF' Negative finished water samples			
			'NR' Negative raw water samples			
			'ND' Negative sample analytical results from distributi	on sys	stem	
			samples.			
			'SR' Samples required			
			'RL' Replacement samples			
			'MR' Mean (average) result for period			
			'HR' High result for period			
			'LR' Low result for period			
			'CR' Chlorine Residual Taken			
			'CB' Chlorine Residual below 0.2mg/p			
			'RF' Required repeats per Federal regulations			
			'RS' Required repeats per State regulations			
			'CK' Check samples taken			
			'FV' Days in Federal violation period			
			'SV' Days in State violation period			
			'VI' Days of violation period			
			'RI' Replacement samples for invalid results			
			'SP' Special samples			

Segment: TMD Test Method

Position: 201
Loop: TMD
Level: Detail
Usage: Optional

Max Use: 1

Purpose: To describe the nature of the test performed

Syntax Notes: 1 If either TMD02 or TMD03 is present, then the other is required.

2 If TMD09 is present, then TMD02 is required.

Semantic Notes: 1 TMD07 is the date of the test method as assigned by the issuing organization.

2 TMD08 is the document revision number.

Comments: 1 TMD09 specifies the individual code list of the agency specified in TMD02.

Notes: The TMD loop is used when an EPA defined results method applies to the test results

reported.

	Ref.	Data							
	Des.	Element	<u>Name</u>	Att	ributes	-			
	TMD01	750	Product/Process Characteristic Code	O	ID	2/3			
			Code identifying the general class of a product or process of	harac	eteristic	;			
			'RM' Result Method Code						
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.				
	TMD02	559	Agency Qualifier Code	X	ID	2/2			
			Code identifying the agency assigning the code values						
			'EP' Environmental Protection Agency Code List						
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.				
	TMD03	751	Product Description Code	\mathbf{X}	AN	1/12			
			a code from an industry code list which provides specific data about a product haracteristic						
			Approved code from code list.						
X	TMD04	937	Test Administration Method Code Code specifying the method of administering the test	0	ID	2/2			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.				
X	TMD05	938	Test Medium Code	O	ID	2/2			
			Code specifying organism on which the test was performed	l					
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.				
X	TMD06	352	Description	O	$\mathbf{A}\mathbf{N}$	1/80			
			A free-form description to clarify the related data elements	and t	their co	ontent			
X	TMD07	373	Date	O	DT	6/6			
			Date (YYMMDD)						
X	TMD08	127	Reference Identification Reference information as defined for a particular Transacti	O on Se	AN et or as	1/30			
v	TMD00	922	specified by the Reference Identification Qualifier	•	A B.T	1/15			
X	TMD09	822	Source Subqualifier A reference that indicates the table or text maintained by the	O ne Sou	AN urce Qu	1/15 ualifier			

CTT Transaction Totals **Segment: Position:** 005 Loop: Level: Summary Usage: Optional Max Use: **Purpose:** To transmit a hash total for a specific element in the transaction set **Syntax Notes:** If either CTT03 or CTT04 is present, then the other is required. If either CTT05 or CTT06 is present, then the other is required. **Semantic Notes: Comments:** 1 This segment is intended to provide hash totals to validate transaction completeness and correctness. Note: One iteration of the CTT segment is required. **Notes: Data Element Summary** Ref. Data **Element** Attributes Des. Name **Number of Line Items** >> CTT01 354 N01/6 Total number of line items in the transaction set The number in CTT01 element is the total number of LIN segments in the TS. \mathbf{X} CTT02 347 **Hash Total** O R 1/10 Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: ıe

	CITITION	04	0018 First occurrence of value being hashed18 Second being hashed. 1.8 Third occurrence of value being hash occurrence of value being hashed 1855 Hash total after truncation to three-digit field.	g hashed. 18.01 Fourth sh total prior to truncation.				
X	CTT03	81	Weight Numeric value of weight	X	R	1/10		
X	CTT04	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being exp which a measurement has been taken Refer to 003061 Data Element Dictionary for acceptable			2/2 ner in		
X	CTT05	183	Volume Value of volumetric measure	X	R	1/8		
X	CTT06	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner is which a measurement has been taken Refer to 003061 Data Element Dictionary for acceptable code values.					
X	CTT07	352	Description A free-form description to clarify the related data elements	O ents and	AN their c	1/80 ontent		

Segment: ${\bf SE}$ Transaction Set Trailer

Position: 010

Loop:

Level: Summary Usage: Mandatory

Max Use: 1

Purpose: To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

	Ref.	Data				
	Des.	Element	<u>Name</u>	Att	ributes	<u>s</u>
>>	SE01	96	Number of Included Segments	M	N0	1/10
			Total number of segments included in a transaction set included segments	uding	g ST a	nd SE
>>	SE02	329	Transaction Set Control Number	M	AN	4/9
			Identifying control number that must be unique within the functional group assigned by the originator for a transaction		action	set

997 Functional Acknowledgment

Functional Group ID= ${FA}$

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

Must Use	Pos. No. 010	Seg. <u>ID</u> ST	<u>Name</u> Transaction Set Header	Req. Des. M	Max.Use	Loop <u>Repeat</u>	Notes and Comments n1
Must Use	020	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2			999999	
Must Use	030	AK2	Transaction Set Response Header	О	1		n3
			LOOP ID - AK3			999999	
Must Use	040	AK3	Data Segment Note	О	1		c1
Must Use	050	AK4	Data Element Note	O	99		
Must Use	060	AK5	Transaction Set Response Trailer	M	1		
Must Use	070	AK9	Functional Group Response Trailer	M	1		
Must Use	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

- 1. These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments.
 - The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code.
 - There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.
- **2.** AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
- **3.** AK2 is used to start the acknowledgement of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

Transaction Set Comments

1. The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

EPAFA (003061) June 24, 1997

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Usage: Mandatory

Max Use:

Purpose: To indicate the start of a transaction set and to assign a control number

Syntax Notes: Semantic Notes:

1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810

selects the Invoice Transaction Set).

Comments:

	Ref.	Data				
	Des.	Element	<u>Name</u>	Attributes		<u>3</u>
>>	ST01	143	Transaction Set Identifier Code	\mathbf{M}	ID	3/3
			Code uniquely identifying a Transaction Set			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
>>	ST02	329	Transaction Set Control Number	\mathbf{M}	$\mathbf{A}\mathbf{N}$	4/9
			Identifying control number that must be unique within the functional group assigned by the originator for a transactio			set

Segment: AK1 Functional Group Response Header

Position: 020

Loop: Level:

Usage: Mandatory

Max Use: 1

Purpose: To start acknowledgment of a functional group

Syntax Notes:

Semantic Notes: 1 AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.

2 AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.

Comments:

	Ref.	Data	·			
	Des.	Element	<u>Name</u>	<u>Att</u>	<u>ribute</u>	<u>s</u>
>>	AK101	479	Functional Identifier Code	M	ID	2/2
			Code identifying a group of application related transaction	sets		
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
>>	AK102	28	Group Control Number Assigned number originated and maintained by the sender	M	N0	1/9

Segment: AK2 Transaction Set Response Header

Position: 030 **Loop:** AK2

Level:

Usage: Optional (Must Use)

Max Use:

Purpose: To start acknowledgment of a single transaction set

Syntax Notes: Semantic Notes:

set being acknowledged.

2 AK202 is the transaction set control number found in the ST segment in the

AK201 is the transaction set ID found in the ST segment (ST01) in the transaction

2 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

Comments:

>>	Ref. <u>Des.</u> AK201	Data Element 143	Name Transaction Set Identifier Code Code uniquely identifying a Transaction Set	Att:	ributes ID	<u>s</u> 3/3
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
>>	AK202	329	Transaction Set Control Number Identifying control number that must be unique within the functional group assigned by the originator for a transaction		AN action	4/9 set

Segment: AK3 Data Segment Note

Position: 040 **Loop:** AK3

Level:

Usage: Optional (Must Use)

Max Use: 1

Purpose: To report errors in a data segment and identify the location of the data segment

Syntax Notes: Semantic Notes: Comments:

	Ref. Des.	Data Element	Name	Att	ribute	s
>>	AK301	721	Segment ID Code	M	ID	2/3
			Code defining the segment ID of the data segment in error Number 77)	(See	Appen	dix A -
>>	AK302	719	Segment Position in Transaction Set	\mathbf{M}	N0	1/6
			The numerical count position of this data segment from the transaction set: the transaction set header is count position		of the	;
	AK303	447	Loop Identifier Code	O	AN	1/4
			The loop ID number given on the transaction set diagram i data element in segments LS and LE	s the	value 1	for this
	AK304	720	Segment Syntax Error Code	O	ID	1/3
			Code indicating error found based on the syntax editing of Refer to 003061 Data Element Dictionary for acceptable co	·		

Segment: AK4 Data Element Note

Position: 050 **Loop:** AK3

Level:

Usage: Optional (Must Use)

Max Use: 99

Purpose: T

To report errors in a data element and identify the location of the data element

Syntax Notes: Semantic Notes: Comments:

	Ref.	Data							
	Des.	Element	<u>Name</u>	Att	ribute	<u>s</u>			
>>	AK401	C030	Position in Segment	M					
			Code indicating the relative position of a simple data element, or the relative position of a composite data structure combined with the relative position of the component data element within the composite data structure, in error; the count starts with 1 for the simple data element or composite data structure immediately following the segment ID						
>>	C03001	722	Element Position in Segment	M	N0	1/2			
			This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID						
	C03002	1528	Component Data Element Position in Composite	O	N0	1/2			
			To identify the component data element position within the in error	com	posite	that is			
	AK402	725	Data Element Reference Number	O	N0	1/4			
			Reference number used to locate the data element in the Da Dictionary	ıta El	ement				
>>	AK403	723	Data Element Syntax Error Code	M	ID	1/3			
			Code indicating the error found after syntax edits of a data	elem	ent				
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.				
	AK404	724	Copy of Bad Data Element	O	$\mathbf{A}\mathbf{N}$	1/99			
			This is a copy of the data element in error						

Segment: AK5 Transaction Set Response Trailer

Position: 060 **Loop:** AK2

Level:

Usage: Mandatory

Max Use:

Purpose: To a

To acknowledge acceptance or rejection and report errors in a transaction set

Syntax Notes: Semantic Notes: Comments:

	Ref.	Data						
	Des.	Element	<u>Name</u>	Att	ributes	<u>s</u>		
>>	AK501	717	Transaction Set Acknowledgment Code	M	ID	1/1		
			Code indicating accept or reject condition based on the syntax editing of the transaction set					
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.			
	AK502	718	Transaction Set Syntax Error Code	\mathbf{o}	ID	1/3		
			Code indicating error found based on the syntax editing of a transaction set					
			Refer to 003061 Data Element Dictionary for acceptable code values.					
	AK503	718	Transaction Set Syntax Error Code	O	ID	1/3		
			Code indicating error found based on the syntax editing of a transaction set					
			Refer to 003061 Data Element Dictionary for acceptable code values.					
	AK504	718	Transaction Set Syntax Error Code	0	ID	1/3		
			Code indicating error found based on the syntax editing of a transaction set					
			Refer to 003061 Data Element Dictionary for acceptable code values.					
	AK505	718	Transaction Set Syntax Error Code	O	ID	1/3		
			Code indicating error found based on the syntax editing of a transaction set					
			Refer to 003061 Data Element Dictionary for acceptable code values.					
	AK506	718	Transaction Set Syntax Error Code	O	ID	1/3		
			Code indicating error found based on the syntax editing of a transaction set					
			Refer to 003061 Data Element Dictionary for acceptable co-	de va	lues.			

AK9 Functional Group Response Trailer **Segment:**

070 **Position:**

> Loop: Level:

Usage: Mandatory

Max Use:

Purpose: To acknowledge acceptance or rejection of a functional group and report the number of

included transaction sets from the original trailer, the accepted sets, and the received

sets in this functional group

Syntax Notes: Semantic Notes:

Comments:

1 If AK901 contains the value "A" or "E", then the transmitted functional group is accepted. If AK901 contains the value "R", then the transmitted group is rejected.

	Ref.	Data	•					
	Des.	Element	<u>Name</u>	Att	<u>ribute</u>	<u>s</u>		
>>	AK901	715	Functional Group Acknowledge Code	M	ID	1/1		
			Code indicating accept or reject condition based on the synt	ax e	diting	of the		
			functional group Refer to 003061 Data Element Dictionary for acceptable co	de va	lues			
>>	AK902	97	Number of Transaction Sets Included	M	N0	1/6		
	AK)02	71	Total number of transaction sets included in the functional			1/0		
			interchange (transmission) group terminated by the trailer of			this data		
			element					
>>	AK903	123	Number of Received Transaction Sets	M	N0	1/6		
			Number of Transaction Sets received					
>>	AK904	2	Number of Accepted Transaction Sets	M	N0	1/6		
	A 17005	716	Number of accepted Transaction Sets in a Functional Group		ть	1/2		
	AK905	716	Functional Group Syntax Error Code	0	ID	1/3		
			Code indicating error found based on the syntax editing of t group header and/or trailer	ne n	ıncuo	nai		
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.			
	AK906	716	Functional Group Syntax Error Code	0	ID	1/3		
			Code indicating error found based on the syntax editing of t	he fu	unction	nal		
			group header and/or trailer					
			Refer to 003061 Data Element Dictionary for acceptable code values.					
	AK907	716	Functional Group Syntax Error Code	0	ID	1/3		
			Code indicating error found based on the syntax editing of the functional					
			group header and/or trailer	J	1			
	A 17000	716	Refer to 003061 Data Element Dictionary for acceptable con	ne va		1/2		
	AK908	716	Functional Group Syntax Error Code	~	ID	1/3		
			Code indicating error found based on the syntax editing of t group header and/or trailer	ne n	inctio	iai		
			Refer to 003061 Data Element Dictionary for acceptable code values					
	AK909	716	Functional Group Syntax Error Code	0	ID	1/3		
			Code indicating error found based on the syntax editing of t	he fu	unction	nal		
			group header and/or trailer					
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.			

Segment: ${\bf SE}$ Transaction Set Trailer

Position: 080

Loop:

Level: Usage: Mandatory

Max Use:

Purpose: To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

	Ref.	Data				
	Des.	Element	<u>Name</u>	Attributes		<u>s</u>
>>	SE01	96	Number of Included Segments	\mathbf{M}	N0	1/10
			Total number of segments included in a transaction set inc segments	luding	g ST a	nd SE
>>	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the functional group assigned by the originator for a transaction			4/9 set